SLEEP, SLEEP DISORDERS, AND BIOLOGICAL RHYTHMS				
South Carolina Science Academic Standards – Biology				
Lesson	Standard	Indicator		
1, 2, 3	B-1.1	Generate hypotheses based on credible, accurate, and relevant sources of scientific information.		
1,3	B-1.2	Use appropriate laboratory apparatuses, technology, and techniques safely and accurately when conducting a scientific investigation.		
Pre-lesson, 1	B-1.3	Use scientific instruments to record measurement data in appropriate metric units that reflect the precision and accuracy of each particular instrument.		
1,3	B-1.4	Design a scientific investigation with appropriate methods of control to test a hypothesis (including independent and dependent variables), and evaluate the designs of sample investigations.		
1, 2, 3	B-1.5	Organize and interpret the data from a controlled scientific investigation by using mathematics, graphs, models, and/or technology.		
1, 2, 3	B-1.6	Evaluate the results of a controlled scientific investigation in terms of whether they refute or verify the hypothesis.		
1	B-1.9	Use appropriate safety procedures when conducting investigations.		
2	B-2.8	Explain the factors that affect the rates of biochemical reactions (including pH, temperature, and the role of enzymes as catalysts).		
South Carolina Mathematics Academic Standards – Grades 9 - 12				
		Number and Operations		
Lesson	Standard	Expectation		
Pre-lesson, 1	III.A.1	Given a problem situation, determine whether to use a rough estimate, an approximation, or an exact answer. Select a suitable method of computing from techniques such as the use of mental mathematics, paper and pencil computations, calculators, and computers.		
3	III.B.1	Explain why a solution is mathematically reasonable using supporting data.		
Algebra				
1,3	I.B.1	Gather and record data, or use data sets, to determine functional (systematic) relationships between quantities.		

09/2006 Source: http://ed.sc.gov/agency/offices/cso/

1, 2, 3	I.B.3	Interpret situations in terms of given graphs and create situations that fit given graphs.		
1, 2, 3	III.C.1	Verify and explain the conclusion based on the data and the processes used.		
Data Analysis and Probability				
3	I.A.1	Distinguish among surveys, observational studies, and controlled experiments and evaluate the quality of each.		
1, 3	I.A.2	Evaluate the legitimacy of conclusions about the population based on the sample(s) studied.		
1, 2, 3	I.C.2	Given a problem situation, distinguish between independent/explanatory and dependent/response variables.		
1, 2, 3	I.D.1	Represent, display, and interpret data using scatterplots, bar graphs, stem-and-leaf plots, and box-and-whiskers diagrams including representations on graphing calculators and computers.		
1, 3	III.A.1	Conduct simulations to collect random sample statistics and examine the variability of them from a known population.		
1, 2, 4	III.C.2	Given a published report based on data, interpret the results.		
South Carolina Language Arts Academic Standards – English I & 2				
Lesson	Standard	Indicator		
Lesson All lessons	Standard E1-R1.2 E2-R1.2	Indicator Demonstrate the ability to make connections between a text read independently and his or her prior knowledge, other texts, and the world.		
	E1-R1.2	Demonstrate the ability to make connections between a text read independently and his or her prior		
All lessons	E1-R1.2 E2-R1.2 E1-R1.8	Demonstrate the ability to make connections between a text read independently and his or her prior knowledge, other texts, and the world.		
All lessons	E1-R1.2 E2-R1.2 E1-R1.8 E2-R1.8 E1-R3.2	Demonstrate the ability to make connections between a text read independently and his or her prior knowledge, other texts, and the world. Demonstrate the ability to draw conclusions and make inferences. Demonstrate the ability to use context analysis to determine the meanings of unfamiliar and multiple-		
All lessons 1, 2, 3, 4	E1-R1.2 E2-R1.2 E1-R1.8 E2-R1.8 E1-R3.2 E2-R3.2 E1-W1.3	Demonstrate the ability to make connections between a text read independently and his or her prior knowledge, other texts, and the world. Demonstrate the ability to draw conclusions and make inferences. Demonstrate the ability to use context analysis to determine the meanings of unfamiliar and multiplemeaning words. Demonstrate the ability to develop an extended response around a central idea, using relevant supporting		
All lessons 1, 2, 3, 4 All lessons	E1-R1.2 E2-R1.2 E1-R1.8 E2-R1.8 E1-R3.2 E2-R3.2 E1-W1.3 E2-W1.3	Demonstrate the ability to make connections between a text read independently and his or her prior knowledge, other texts, and the world. Demonstrate the ability to draw conclusions and make inferences. Demonstrate the ability to use context analysis to determine the meanings of unfamiliar and multiplemeaning words. Demonstrate the ability to develop an extended response around a central idea, using relevant supporting details. Demonstrate the ability to write multiple-paragraph compositions, friendly letters, and expressive and		

09/2006 Source: http://ed.sc.gov/agency/offices/cso/

All lessons	E1-W3.1 E2-W3.1	Demonstrate the ability to respond to texts both orally and in writing.		
All lessons	E1-W3.3 E2-W3.3	Demonstrate the ability to use texts to make connections and to support ideas in his or her own writing.		
All lessons	E1-W4.1 E2-W4.1	Demonstrate the ability to write legibly using print or cursive handwriting.		
All lessons	E1-C1.7 E2-C1.7	Demonstrate the ability to participate and respond appropriately in conversations, discussions, speeches, and debates.		
All lessons	E1-C1.12 E2-C1.12	Demonstrate the ability to formulate appropriate oral responses by using accurate and detailed references to texts.		
2, 3, 5	E1-C2.3 E2-C2.3	Demonstrate the ability to make predictions, to distinguish between fact and opinion, to compare and contrast information and ideas, and to make inferences with regard to what he or she has heard.		
2, 3	E1-C3.1 E2-C3.1	Demonstrate the ability to analyze and evaluate the effectiveness of the techniques used in nonprint sources for a particular audience.		
2, 3	E1-C3.4 E2-C3.4	Demonstrate the ability to make predictions, to distinguish between fact and opinion, to compare and contrast information and ideas, and to make inferences with regard to what he or she has viewed.		
2, 3	E1-C3.8 E2-C3.8	Demonstrate the ability to make connections between nonprint sources and his or her prior knowledge, other sources, and the world.		
1, 2, 4	E1-RS1.1 E2-RS1.1	Demonstrate the ability to ask questions to guide his or her research inquiry.		
1, 3, 4	E1-RS1.2 E2-RS1.2	Demonstrate the ability to ask questions to investigate all aspects of a topic, including various viewpoints regarding it.		
All lessons	E1-RS3.1 E2-RS3.1	Demonstrate the ability to synthesize information from a variety of sources, including those accessed through the use of technology.		
South Carolina Health Lifetime Wellness Standards – Grades 9 - 12				
Lesson	Standard	Indicator		
4, 5	I.1.a	Evaluate risk relationships between healthy lifestyle behaviors and disease prevention.		
4	I.1.b	Analyze strategies for detection and treatment of communicable and chronic diseases.		
1,5	I.1.c	Evaluate the risks and benefits of personal health practices.		

09/2006 Source: http://ed.sc.gov/agency/offices/cso/

3, 4	I.2.a	Evaluate the validity of health information, products, and services from community agency, technology (Internet), and mass media sources.
4	I.3.a	Demonstrate the ability to use primary care prevention strategies for maintaining and enhancing health.
4	I.3.c	Develop a plan for using health resources for the prevention of and intervention in various diseases.
5	I.4.b	Describe how public health policies and government regulations influence health promotion and disease prevention.
4, 5	I.4.c	Analyze how research, technology, and medical advances influence the prevention and control of health problems.
4, 5	I.6.a	Demonstrate the ability to use various strategies when making decisions related to health needs.
5	I.7.b	Demonstrate the ability to adapt health messages and communication techniques to the characteristics of a particular audience.
4	III.4.a	Analyze how individual and family beliefs influence feelings, health behavior, relationships, and character development.
4, 5	III.6.d	Demonstrate the ability to apply a decision-making process to health issues and problems, both individually and collaboratively.
4, 5	III.7.a	Demonstrate the ability to influence and support others in making positive health choices.
5	IV.1.b	Analyze the short- and long-term results of safe, risky, and harmful behaviors.

09/2006 Source: http://ed.sc.gov/agency/offices/cso/

B. Houtz